

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P580125

Luminaire Tested: **HVSL12-2-LD4-1STD-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580125  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/16/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: HVSL12-2-LD4-1STD-35-UNV-O-EDD-90  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

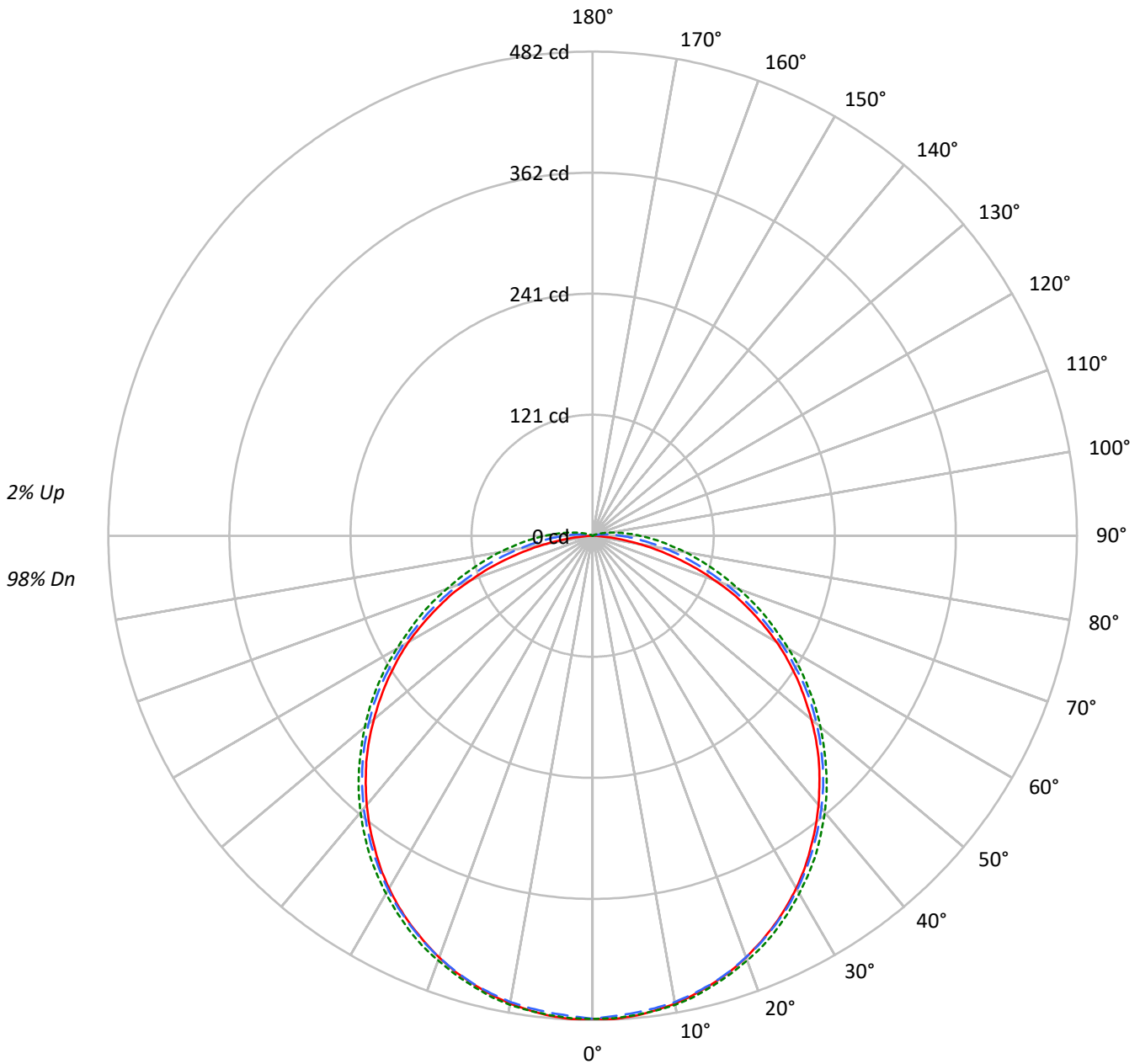
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1454.0 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 17.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	98																			
1	108	102	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81																			
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	67																			
3	89	78	69	63	86	76	68	62	73	66	61	70	64	59	67	62	58	56																			
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	54	50	47																			
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	40	67	54	46	39	52	45	39	50	44	38	49	43	38	36																			
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34	32																			
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28																			
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25																			
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2588	2588	2588
5°	2574	2537	2551
10°	2547	2498	2517
15°	2516	2453	2473
20°	2483	2403	2429
25°	2445	2351	2385
30°	2403	2295	2332
35°	2350	2233	2279
40°	2296	2168	2215
45°	2238	2096	2145
50°	2165	2012	2068
55°	2085	1919	1983
60°	1989	1797	1880
65°	1845	1660	1781
70°	1647	1498	1664
75°	1372	1318	1566
80°	983	1144	1494
85°	474	971	1454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.5	3.1
10°-20°	130.5	9.0
20°-30°	198.1	13.6
30°-40°	239.5	16.5
40°-50°	249.9	17.2
50°-60°	228.5	15.7
60°-70°	178.1	12.3
70°-80°	111.4	7.7
80°-90°	50.6	3.5
90°-100°	17.0	1.2
100°-110°	4.3	0.3
110°-120°	0.7	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	374.1	25.7
0°-40°	613.6	42.2
0°-60°	1092.0	75.1
0°-90°	1432.1	98.5
90°-120°	21.9	1.5
90°-150°	21.9	1.5
90°-180°	22.0	1.5
0°-180°	1454.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	481	481	481	481	481	
5°	480	479	477	479	479	46
15°	462	462	461	464	464	130
25°	428	428	428	432	433	197
35°	379	380	382	386	387	237
45°	319	321	324	327	329	245
55°	249	252	256	260	262	222
65°	171	174	180	187	190	169
75°	86	92	105	118	122	92
85°	15	28	48	63	68	19
90°	0	10	28	42	47	1
95°	0	3	14	26	30	0
105°	0	0	2	7	9	0
115°	0	0	0	1	2	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	480.9	480.9	480.9	480.9	480.9
2.5°	481.5	480.8	478.6	480.8	480.7
5°	479.9	479.0	476.8	479.1	479.1
7.5°	476.7	476.4	474.4	477.0	477.0
10°	473.0	472.8	471.3	474.1	474.2
12.5°	467.7	468.2	466.7	469.4	469.8
15°	461.6	462.4	461.2	463.8	463.7
17.5°	454.9	455.4	454.5	457.4	457.3
20°	446.7	447.2	446.5	449.6	449.9
22.5°	437.5	438.3	438.2	441.3	442.2
25°	427.7	428.1	428.5	432.1	432.8
27.5°	417.0	417.5	418.3	421.6	422.3
30°	405.2	406.1	407.0	410.4	411.3
32.5°	392.7	393.6	394.7	399.2	399.6
35°	378.6	380.3	381.9	385.8	387.4
37.5°	364.6	366.7	368.2	372.3	373.5
40°	349.7	351.9	354.3	358.6	359.4
42.5°	334.2	336.7	339.5	343.4	344.7
45°	318.6	321.4	324.0	327.2	328.8
47.5°	301.7	304.5	307.7	311.3	312.3
50°	284.2	287.5	290.9	294.3	296.1
52.5°	266.3	270.3	274.1	277.7	279.4
55°	248.6	251.6	256.2	259.9	261.6
57.5°	230.2	232.7	236.9	243.1	244.0
60°	211.5	213.8	218.1	223.1	225.1
62.5°	190.9	194.0	198.5	204.9	206.7
65°	170.8	173.8	179.8	186.9	189.9
67.5°	151.5	152.5	160.2	167.7	172.4
70°	128.6	132.4	141.4	150.5	154.2
72.5°	108.8	112.7	122.5	133.3	137.9
75°	86.5	91.8	105.2	117.8	122.2
77.5°	66.9	72.8	89.3	102.0	107.1
80°	46.7	55.9	73.9	88.2	93.8
82.5°	29.4	40.7	60.0	74.9	79.8
85°	15.0	27.7	47.5	62.8	68.4
87.5°	4.0	17.9	37.0	51.6	57.2
90°	0.1	10.3	28.0	42.1	47.2
92.5°	0.1	5.8	20.9	33.4	38.7
95°	0.1	2.7	14.5	26.3	30.4
97.5°	0.1	1.1	10.0	19.8	23.9
100°	0.1	0.6	6.3	14.4	17.9
102.5°	0.2	0.3	4.0	10.3	13.2
105°	0.2	0.3	2.4	7.0	9.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.5	1.9	2.8
115°	0.3	0.3	0.5	1.2	1.8
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	0.2	0.3	1.4	4.8	6.5
110°	0.3	0.3	0.8	2.9	4.3



(END OF REPORT)